L - WIRING DIAGRAMS

1996 ENGINE PERFORMANCE General Motors Wiring Diagrams

WIRING DIAGRAMS

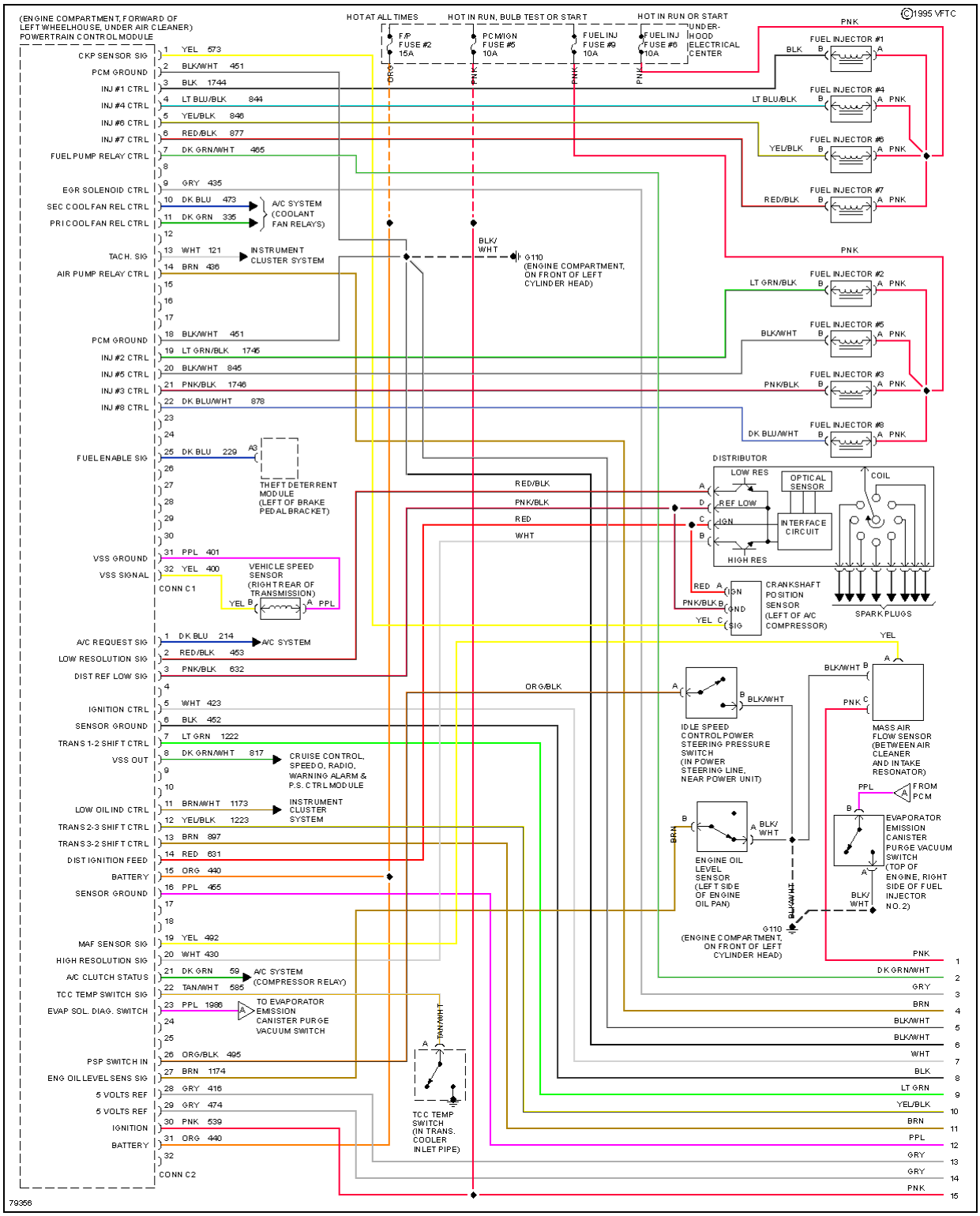
(ENGINE COMPARTMENT, FORWARD OF LEFT WHEELHOUSE, UNDER AIR CLEANER)
POWERTRAIN CONTROL MODULE
HOT AT ALL TIMES
HOT IN RUN, BULB TEST OR START
HOT IN RUN OR START
F/P FUSE #2 15A
PCM/IGN FUSE #5 10A
FUEL INJ FUSE #9 10A
FUEL INJ FUSE #6 10A
UNDER-HOOD ELECTRICAL CENTER
©1995 VFTC
CKP SENSOR SIG
PCM GROUND
INJ #1 CTRL
INJ #4 CTRL
INJ #6 CTRL
INJ #7 CTRL
FUEL PUMP RELAY CTRL
EGR SOLENOID CTRL
SEC COOL FAN REL CTRL
PRI COOL FAN REL CTRL
TACH. SIG
AIR PUMP RELAY CTRL
PCM GROUND
INJ #2 CTRL
INJ #5 CTRL
INJ #3 CTRL
INJ #8 CTRL
FUEL ENABLE SIG
VSS GROUND
VSS SIGNAL
CONN C1
A/C REQUEST SIG
LOW RESOLUTION SIG
DIST REF LOW SIG
IGNITION CTRL
SENSOR GROUND
TRANS 1-2 SHIFT CTRL
VSS OUT
LOW OIL IND CTRL
TRANS 2-3 SHIFT CTRL
TRANS 3-2 SHIFT CTRL
DIST IGNITION FEED
BATTERY
SENSOR GROUND
MAF SENSOR SIG
HIGH RESOLUTION SIG
A/C CLUTCH STATUS
TCC TEMP SWITCH SIG
EVAP SOL. DIAG. SWITCH
PSP SWITCH IN
ENG OIL LEVEL SENS SIG
5 VOLTS REF
5 VOLTS REF
IGNITION
BATTERY
CONN C2
A/C SYSTEM (COOLANT FAN RELAYS)
INSTRUMENT CLUSTER SYSTEM
THEFT DETERRENT MODULE (LEFT OF BRAKE PEDAL BRACKET)
VEHICLE SPEED SENSOR (RIGHT REAR OF TRANSMISSION)
A/C SYSTEM
A/C SYSTEM (COMPRESSOR RELAY)
CRUISE CONTROL, SPEEDO, RADIO, WARNING ALARM & P.S. CTRL MODULE
INSTRUMENT CLUSTER SYSTEM
TO EVAPORATOR EMISSION CANISTER PURGE VACUUM SWITCH
TCC TEMP SWITCH (IN TRANS. COOLER INLET PIPE)
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
FUEL INJECTOR #1
FUEL INJECTOR #4
FUEL INJECTOR #6
FUEL INJECTOR #7
FUEL INJECTOR #2
FUEL INJECTOR #5
FUEL INJECTOR #3
FUEL INJECTOR #8
DISTRIBUTOR
LOW RES
REF LOW
IGN
HIGH RES
OPTICAL SENSOR
INTERFACE CIRCUIT
COIL
SPARK PLUGS
CRANKSHAFT POSITION SENSOR (LEFT OF A/C COMPRESSOR)
IDLE SPEED CONTROL POWER STEERING PRESSURE SWITCH (IN POWER STEERING LINE, NEAR POWER UNIT)
MASS AIR FLOW SENSOR (BETWEEN AIR CLEANER AND INTAKE RESONATOR)
ENGINE OIL LEVEL SENSOR (LEFT SIDE OF ENGINE OIL PAN)
EVAPORATOR EMISSION CANISTER PURGE VACUUM SWITCH (TOP OF ENGINE, RIGHT SIDE OF FUEL INJECTOR NO. 2)
FROM PCM
79356

Fig. 1: 4.3L (VIN W) & 5.7L (VIN P) PCM Wiring Diagram (Caprice, Impala SS & Roadmaster - 1 Of 3)

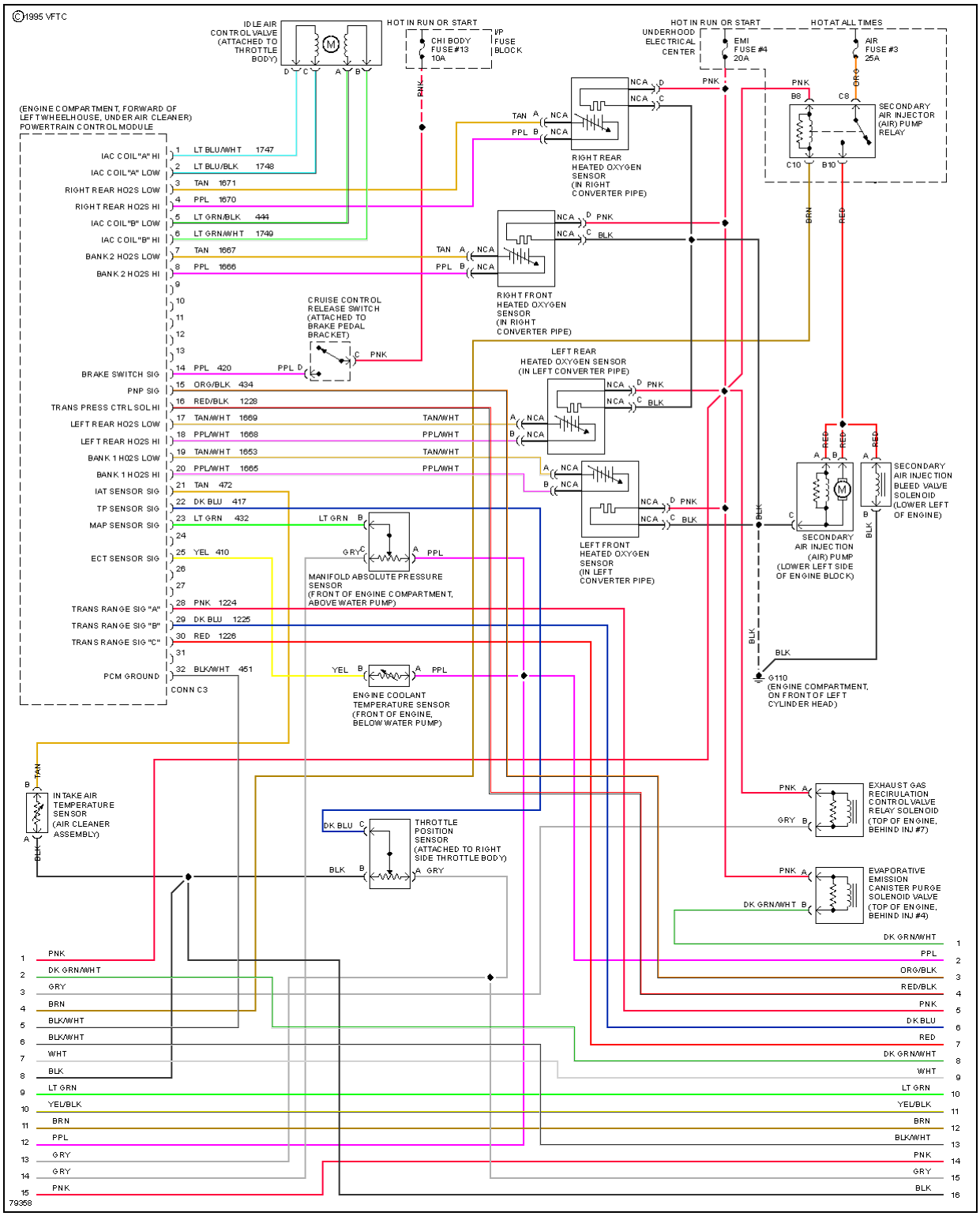
©1995 VFTC
IDLE AIR CONTROL VALVE (ATTACHED TO THROTTLE BODY)
HOT IN RUN OR START
CHI BODY FUSE #13 10A
I/P FUSE BLOCK
HOT IN RUN OR START
UNDERHOOD ELECTRICAL CENTER
EMI FUSE #4 20A
HOT AT ALL TIMES
AIR FUSE #3 25A
(ENGINE COMPARTMENT, FORWARD OF LEFT WHEELHOUSE, UNDER AIR CLEANER)
POWERTRAIN CONTROL MODULE
IAC COIL "A" HI
IAC COIL "A" LOW
RIGHT REAR HO2S LOW
RIGHT REAR HO2S HI
IAC COIL "B" LOW
IAC COIL "B" HI
BANK 2 HO2S LOW
BANK 2 HO2S HI
BRAKE SWITCH SIG
PNP SIG
TRANS PRESS CTRL SOL HI
LEFT REAR HO2S LOW
LEFT REAR HO2S HI
BANK 1 HO2S LOW
BANK 1 HO2S HI
IAT SENSOR SIG
TP SENSOR SIG
MAP SENSOR SIG
ECT SENSOR SIG
TRANS RANGE SIG "A"
TRANS RANGE SIG "B"
TRANS RANGE SIG "C"
PCM GROUND
CONN C3
1 LT BLU/WHT 1747
2 LT BLU/BLK 1748
3 TAN 1671
4 PPL 1670
5 LT GRN/BLK 444
6 LT GRN/WHT 1749
7 TAN 1667
8 PPL 1666
14 PPL 420
15 ORG/BLK 434
16 RED/BLK 1228
17 TAN/WHT 1669
18 PPL/WHT 1668
19 TAN/WHT 1653
20 PPL/WHT 1665
21 TAN 472
22 DK BLU 417
23 LT GRN 432
25 YEL 410
28 PNK 1224
29 DK BLU 1225
30 RED 1226
32 BLK/WHT 451
CRUISE CONTROL RELEASE SWITCH (ATTACHED TO BRAKE PEDAL BRACKET)
RIGHT REAR HEATED OXYGEN SENSOR (IN RIGHT CONVERTER PIPE)
RIGHT FRONT HEATED OXYGEN SENSOR (IN RIGHT CONVERTER PIPE)
LEFT REAR HEATED OXYGEN SENSOR (IN LEFT CONVERTER PIPE)
LEFT FRONT HEATED OXYGEN SENSOR (IN LEFT CONVERTER PIPE)
MANIFOLD ABSOLUTE PRESSURE SENSOR (FRONT OF ENGINE COMPARTMENT, ABOVE WATER PUMP)
ENGINE COOLANT TEMPERATURE SENSOR (FRONT OF ENGINE, BELOW WATER PUMP)
INTAKE AIR TEMPERATURE SENSOR (AIR CLEANER ASSEMBLY)
THROTTLE POSITION SENSOR (ATTACHED TO RIGHT SIDE THROTTLE BODY)
SECONDARY AIR INJECTOR (AIR) PUMP RELAY
SECONDARY AIR INJECTION BLEED VALVE SOLENOID (LOWER LEFT OF ENGINE)
SECONDARY AIR INJECTION (AIR) PUMP (LOWER LEFT SIDE OF ENGINE BLOCK)
EXHAUST GAS RECIRCULATION CONTROL VALVE RELAY SOLENOID (TOP OF ENGINE, BEHIND INJ #7)
EVAPORATIVE EMISSION CANISTER PURGE SOLENOID VALVE (TOP OF ENGINE, BEHIND INJ #4)
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
79358

Fig. 2: 4.3L (VIN W) & 5.7L (VIN P) PCM Wiring Diagram (Caprice, Impala SS & Roadmaster - 2 Of 3)

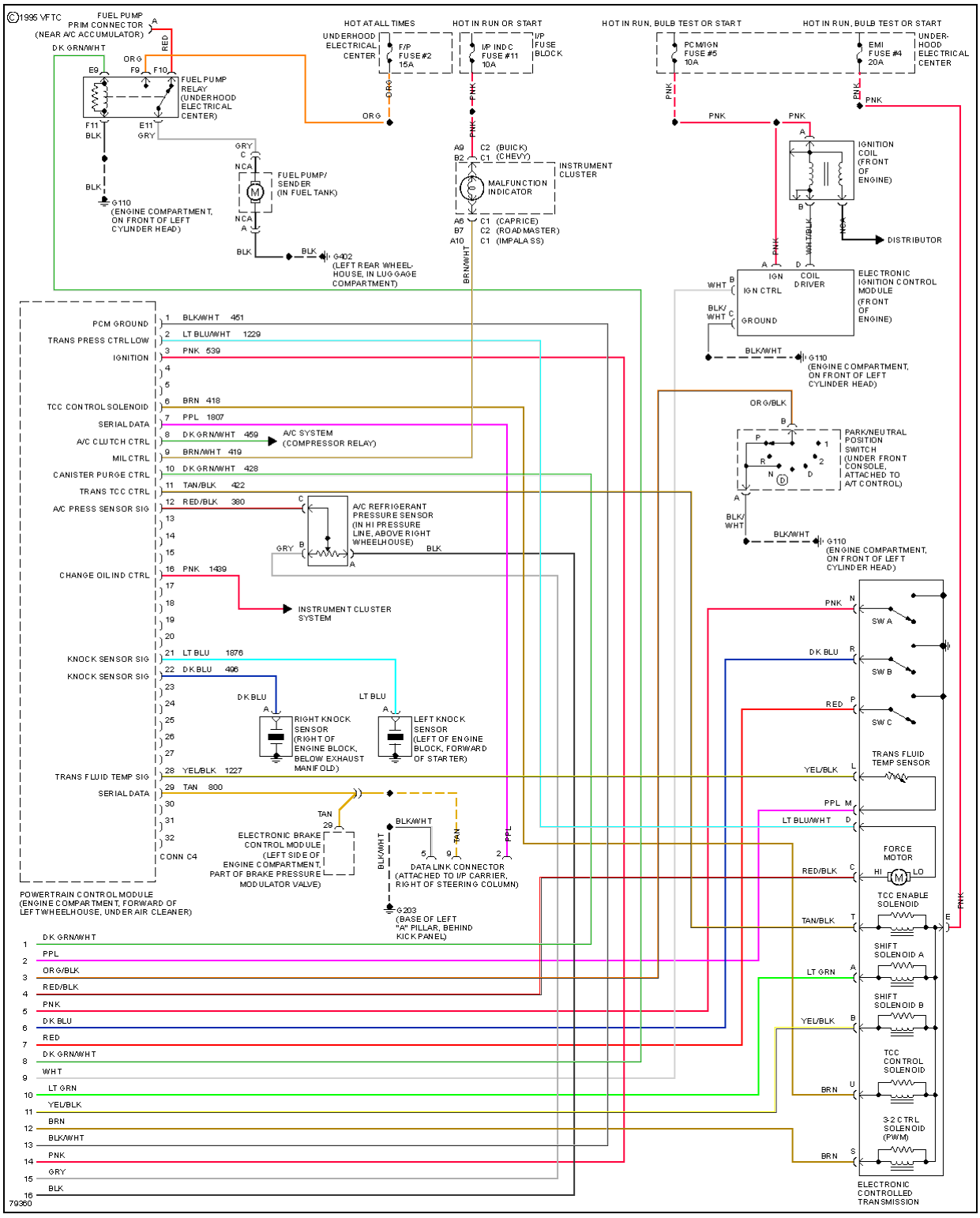
©1995 VFTC
FUEL PUMP PRIM CONNECTOR (NEAR A/C ACCUMULATOR)
DK GRN/WHT
RED
ORG
FUEL PUMP RELAY (UNDERHOOD ELECTRICAL CENTER)
E9
F9
F10
F11
E11
BLK
GRY
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
FUEL PUMP/ SENDER (IN FUEL TANK)
G402 (LEFT REAR WHEEL-HOUSE, IN LUGGAGE COMPARTMENT)
HOT AT ALL TIMES
HOT IN RUN OR START
HOT IN RUN, BULB TEST OR START
UNDERHOOD ELECTRICAL CENTER
F/P FUSE #2 15A
I/P IND C FUSE #11 10A
I/P FUSE BLOCK
PCM/IGN FUSE #5 10A
EMI FUSE #4 20A
UNDER-HOOD ELECTRICAL CENTER
PNK
INSTRUMENT CLUSTER
MALFUNCTION INDICATOR
C2 (BUICK)
C1 (CHEVY)
C1 (CAPRICE)
C2 (ROADMASTER)
C1 (IMPALA SS)
IGNITION COIL (FRONT OF ENGINE)
DISTRIBUTOR
BRN/WHT
ELECTRONIC IGNITION CONTROL MODULE (FRONT OF ENGINE)
IGN CTRL
IGN COIL DRIVER
GROUND
WHT
BLK/WHT
PCM GROUND
TRANS PRESS CTRL LOW
IGNITION
TCC CONTROL SOLENOID
SERIAL DATA
A/C CLUTCH CTRL
MIL CTRL
CANISTER PURGE CTRL
TRANS TCC CTRL
A/C PRESS SENSOR SIG
CHANGE OIL IND CTRL
KNOCK SENSOR SIG
TRANS FLUID TEMP SIG
CONN C4
1 BLK/WHT 451
2 LT BLU/WHT 1229
3 PNK 539
6 BRN 418
7 PPL 1807
8 DK GRN/WHT 459
9 BRN/WHT 419
10 DK GRN/WHT 428
11 TAN/BLK 422
12 RED/BLK 380
16 PNK 1439
21 LT BLU 1876
22 DK BLU 496
28 YEL/BLK 1227
29 TAN 800
A/C SYSTEM (COMPRESSOR RELAY)
A/C REFRIGERANT PRESSURE SENSOR (IN HI PRESSURE LINE, ABOVE RIGHT WHEELHOUSE)
INSTRUMENT CLUSTER SYSTEM
RIGHT KNOCK SENSOR (RIGHT OF ENGINE BLOCK, BELOW EXHAUST MANIFOLD)
LEFT KNOCK SENSOR (LEFT OF ENGINE BLOCK, FORWARD OF STARTER)
ELECTRONIC BRAKE CONTROL MODULE (LEFT SIDE OF ENGINE COMPARTMENT, PART OF BRAKE PRESSURE MODULATOR VALVE)
DATA LINK CONNECTOR (ATTACHED TO I/P CARRIER, RIGHT OF STEERING COLUMN)
G203 (BASE OF LEFT "A" PILLAR, BEHIND KICK PANEL)
POWERTRAIN CONTROL MODULE (ENGINE COMPARTMENT, FORWARD OF LEFT WHEELHOUSE, UNDER AIR CLEANER)
PARK/NEUTRAL POSITION SWITCH (UNDER FRONT CONSOLE, ATTACHED TO A/T CONTROL)
ORG/BLK
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
SW A
SW B
SW C
TRANS FLUID TEMP SENSOR
FORCE MOTOR
HI
LO
TCC ENABLE SOLENOID
SHIFT SOLENOID A
SHIFT SOLENOID B
TCC CONTROL SOLENOID
3-2 CTRL SOLENOID (PWM)
ELECTRONIC CONTROLLED TRANSMISSION
DK GRN/WHT
PPL
ORG/BLK
RED/BLK
PNK
DK BLU
RED
DK GRN/WHT
WHT
LT GRN
YEL/BLK
BRN
BLK/WHT
PNK
GRY
BLK
79360

Fig. 3: 4.3L (VIN W) & 5.7L (VIN P) PCM Wiring Diagram (Caprice, Impala SS & Roadmaster - 3 Of 3)

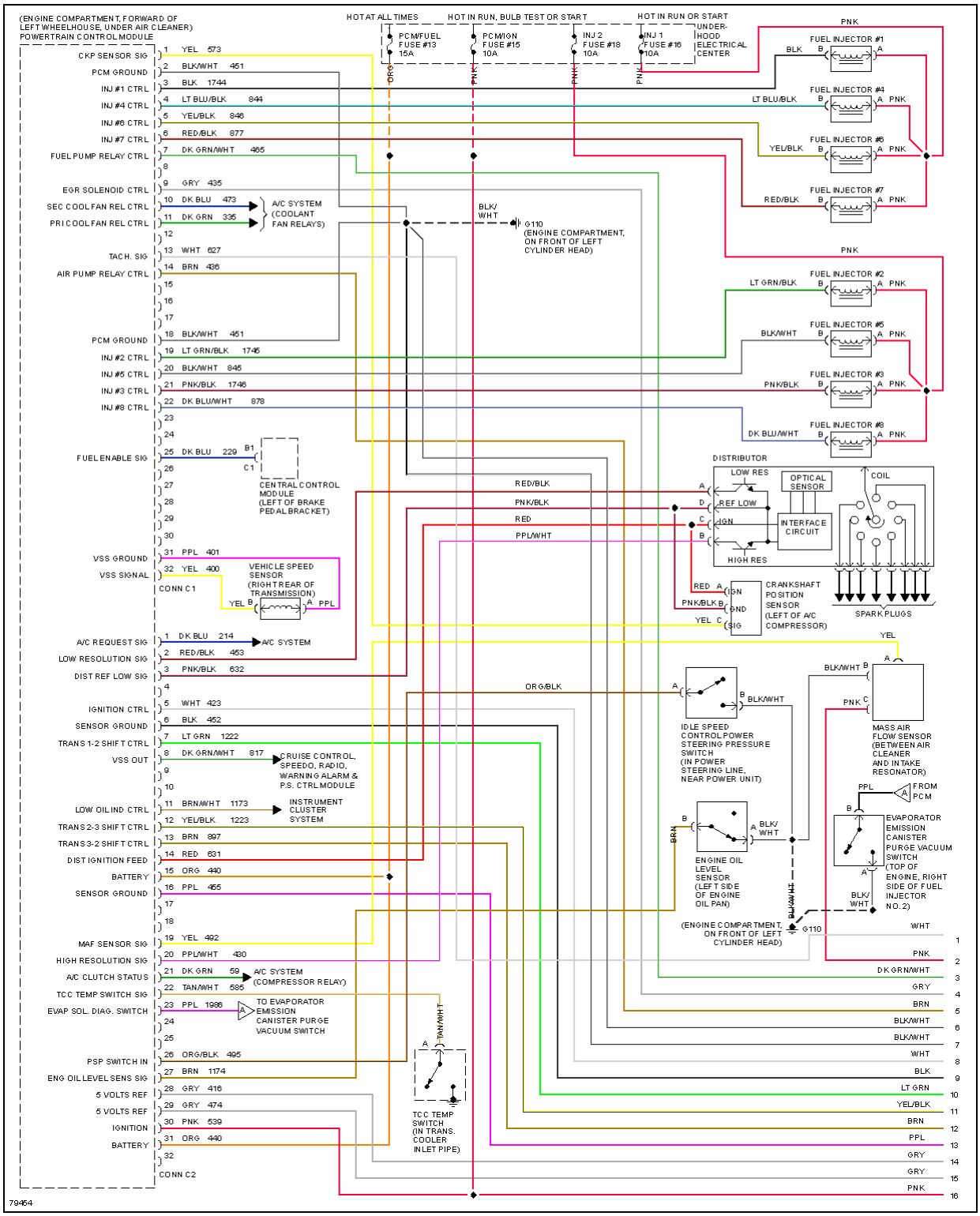
(ENGINE COMPARTMENT, FORWARD OF LEFT WHEELHOUSE, UNDER AIR CLEANER)
POWERTRAIN CONTROL MODULE
HOT AT ALL TIMES
HOT IN RUN, BULB TEST OR START
HOT IN RUN OR START
PCM/FUEL FUSE #13 15A
PCM/IGN FUSE #15 10A
INJ 2 FUSE #18 10A
INJ 1 FUSE #16 10A
UNDER-HOOD ELECTRICAL CENTER
CKP SENSOR SIG
PCM GROUND
INJ #1 CTRL
INJ #4 CTRL
INJ #6 CTRL
INJ #7 CTRL
FUEL PUMP RELAY CTRL
EGR SOLENOID CTRL
SEC COOL FAN REL CTRL
PRI COOL FAN REL CTRL
TACH. SIG
AIR PUMP RELAY CTRL
INJ #2 CTRL
INJ #5 CTRL
INJ #3 CTRL
INJ #8 CTRL
FUEL ENABLE SIG
VSS GROUND
VSS SIGNAL
A/C REQUEST SIG
LOW RESOLUTION SIG
DIST REF LOW SIG
IGNITION CTRL
SENSOR GROUND
TRANS 1-2 SHIFT CTRL
VSS OUT
LOW OIL IND CTRL
TRANS 2-3 SHIFT CTRL
TRANS 3-2 SHIFT CTRL
DIST IGNITION FEED
BATTERY
SENSOR GROUND
MAF SENSOR SIG
HIGH RESOLUTION SIG
A/C CLUTCH STATUS
TCC TEMP SWITCH SIG
EVAP SOL. DIAG. SWITCH
PSP SWITCH IN
ENG OIL LEVEL SENS SIG
5 VOLTS REF
5 VOLTS REF
IGNITION
BATTERY
CONN C1
CONN C2
A/C SYSTEM (COOLANT FAN RELAYS)
CENTRAL CONTROL MODULE (LEFT OF BRAKE PEDAL BRACKET)
VEHICLE SPEED SENSOR (RIGHT REAR OF TRANSMISSION)
A/C SYSTEM
A/C SYSTEM (COMPRESSOR RELAY)
CRUISE CONTROL, SPEEDO, RADIO, WARNING ALARM & P.S. CTRL MODULE
INSTRUMENT CLUSTER SYSTEM
TO EVAPORATOR EMISSION CANISTER PURGE VACUUM SWITCH
TCC TEMP SWITCH (IN TRANS. COOLER INLET PIPE)
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
FUEL INJECTOR #1
FUEL INJECTOR #4
FUEL INJECTOR #6
FUEL INJECTOR #7
FUEL INJECTOR #2
FUEL INJECTOR #5
FUEL INJECTOR #3
FUEL INJECTOR #8
DISTRIBUTOR
LOW RES
REF LOW
IGN
HIGH RES
OPTICAL SENSOR
INTERFACE CIRCUIT
COIL
SPARK PLUGS
CRANKSHAFT POSITION SENSOR (LEFT OF A/C COMPRESSOR)
IDLE SPEED CONTROL POWER STEERING PRESSURE SWITCH (IN POWER STEERING LINE, NEAR POWER UNIT)
MASS AIR FLOW SENSOR (BETWEEN AIR CLEANER AND INTAKE RESONATOR)
ENGINE OIL LEVEL SENSOR (LEFT SIDE OF ENGINE OIL PAN)
EVAPORATOR EMISSION CANISTER PURGE VACUUM SWITCH (TOP OF ENGINE, RIGHT SIDE OF FUEL INJECTOR NO. 2)
FROM PCM
79454

Fig. 4: 5.7L (VIN P) PCM Wiring Diagram (Fleetwood - 1 Of 3)

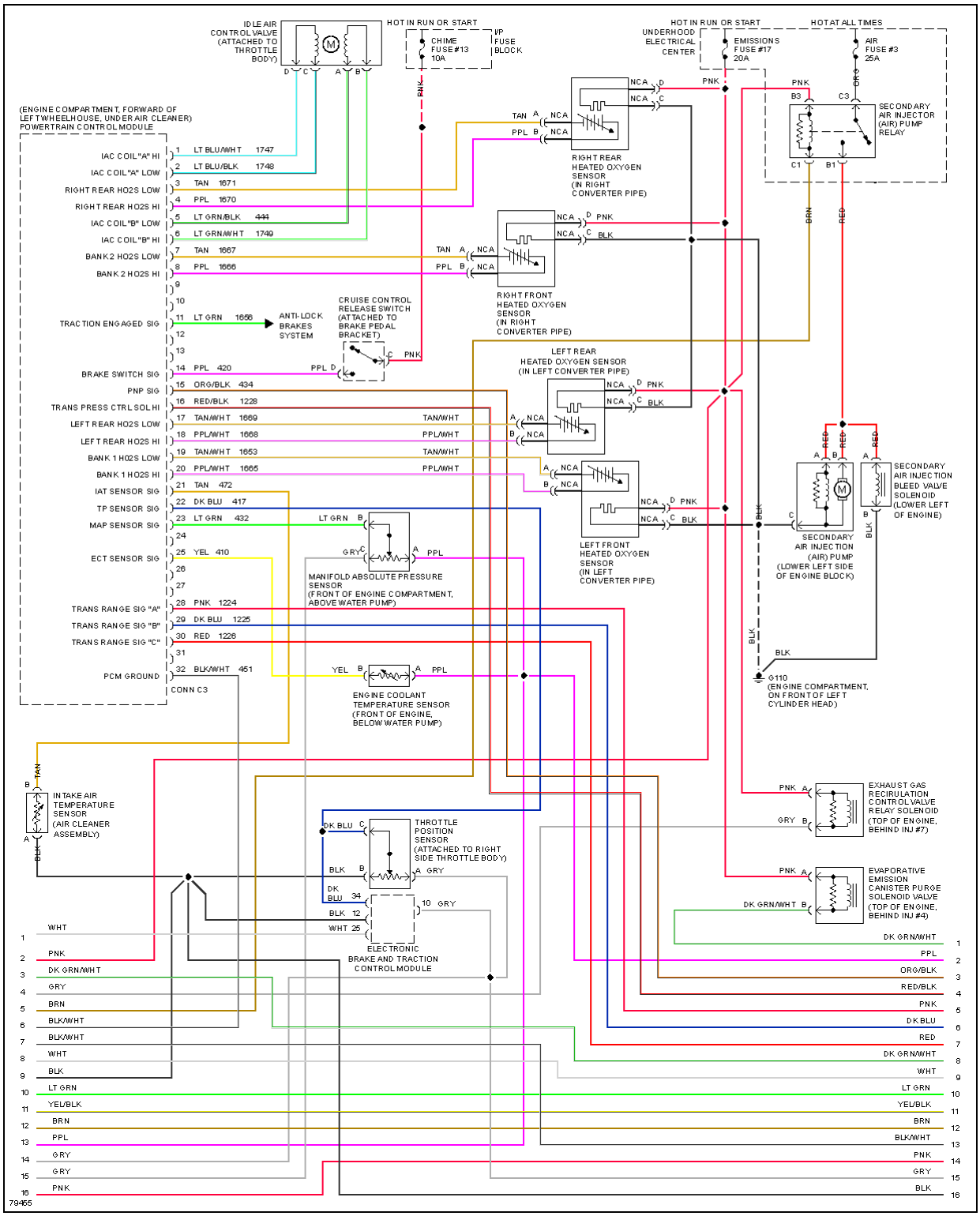
IDLE AIR CONTROL VALVE (ATTACHED TO THROTTLE BODY)
HOT IN RUN OR START
CHIME FUSE #13 10A
I/P FUSE BLOCK
HOT IN RUN OR START
UNDERHOOD ELECTRICAL CENTER
EMISSIONS FUSE #17 20A
HOT AT ALL TIMES
AIR FUSE #3 25A
(ENGINE COMPARTMENT, FORWARD OF LEFT WHEELHOUSE, UNDER AIR CLEANER)
POWERTRAIN CONTROL MODULE
IAC COIL "A" HI
IAC COIL "A" LOW
RIGHT REAR HO2S LOW
RIGHT REAR HO2S HI
IAC COIL "B" LOW
IAC COIL "B" HI
BANK 2 HO2S LOW
BANK 2 HO2S HI
TRACTION ENGAGED SIG
BRAKE SWITCH SIG
PNP SIG
TRANS PRESS CTRL SOL HI
LEFT REAR HO2S LOW
LEFT REAR HO2S HI
BANK 1 HO2S LOW
BANK 1 HO2S HI
IAT SENSOR SIG
TP SENSOR SIG
MAP SENSOR SIG
ECT SENSOR SIG
TRANS RANGE SIG "A"
TRANS RANGE SIG "B"
TRANS RANGE SIG "C"
PCM GROUND
CONN C3
ANTI-LOCK BRAKES SYSTEM
CRUISE CONTROL RELEASE SWITCH (ATTACHED TO BRAKE PEDAL BRACKET)
RIGHT REAR HEATED OXYGEN SENSOR (IN RIGHT CONVERTER PIPE)
RIGHT FRONT HEATED OXYGEN SENSOR (IN RIGHT CONVERTER PIPE)
LEFT REAR HEATED OXYGEN SENSOR (IN LEFT CONVERTER PIPE)
LEFT FRONT HEATED OXYGEN SENSOR (IN LEFT CONVERTER PIPE)
SECONDARY AIR INJECTOR (AIR) PUMP RELAY
SECONDARY AIR INJECTION BLEED VALVE SOLENOID (LOWER LEFT OF ENGINE)
SECONDARY AIR INJECTION (AIR) PUMP (LOWER LEFT SIDE OF ENGINE BLOCK)
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
MANIFOLD ABSOLUTE PRESSURE SENSOR (FRONT OF ENGINE COMPARTMENT, ABOVE WATER PUMP)
ENGINE COOLANT TEMPERATURE SENSOR (FRONT OF ENGINE, BELOW WATER PUMP)
INTAKE AIR TEMPERATURE SENSOR (AIR CLEANER ASSEMBLY)
THROTTLE POSITION SENSOR (ATTACHED TO RIGHT SIDE THROTTLE BODY)
ELECTRONIC BRAKE AND TRACTION CONTROL MODULE
EXHAUST GAS RECIRCULATION CONTROL VALVE RELAY SOLENOID (TOP OF ENGINE, BEHIND INJ #7)
EVAPORATIVE EMISSION CANISTER PURGE SOLENOID VALVE (TOP OF ENGINE, BEHIND INJ #4)
79455

Fig. 5: 5.7L (VIN P) PCM Wiring Diagram (Fleetwood - 2 Of 3)

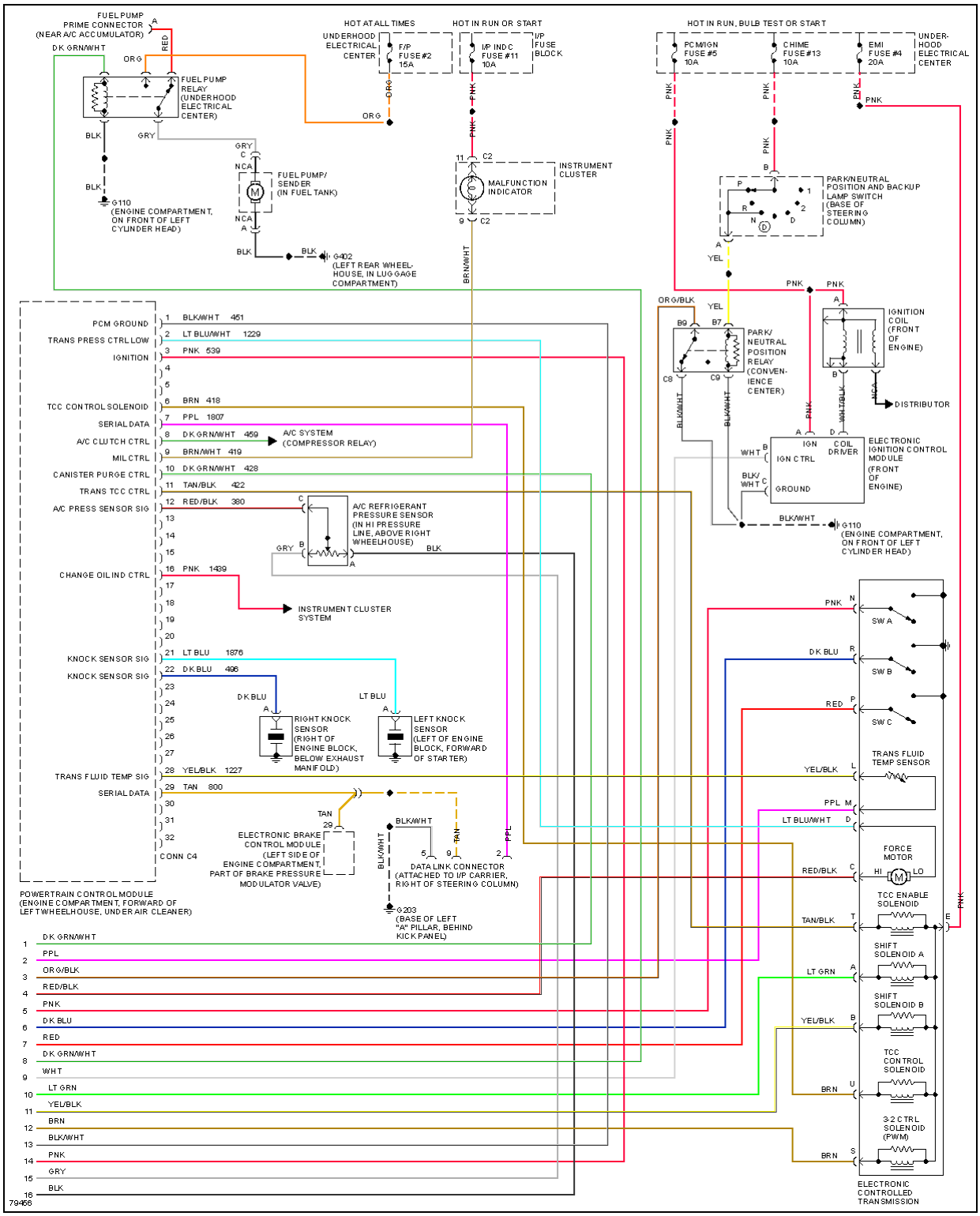
FUEL PUMP PRIME CONNECTOR (NEAR A/C ACCUMULATOR)
DK GRN/WHT
RED
ORG
FUEL PUMP RELAY (UNDERHOOD ELECTRICAL CENTER)
BLK
GRY
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
FUEL PUMP/ SENDER (IN FUEL TANK)
G402 (LEFT REAR WHEEL-HOUSE, IN LUGGAGE COMPARTMENT)
HOT AT ALL TIMES
UNDERHOOD ELECTRICAL CENTER
F/P FUSE #2 15A
HOT IN RUN OR START
I/P IND C FUSE #11 10A
I/P FUSE BLOCK
PNK
INSTRUMENT CLUSTER
MALFUNCTION INDICATOR
BRN/WHT
HOT IN RUN, BULB TEST OR START
PCM/IGN FUSE #5 10A
CHIME FUSE #13 10A
EMI FUSE #4 20A
UNDER-HOOD ELECTRICAL CENTER
PARK/NEUTRAL POSITION AND BACKUP LAMP SWITCH (BASE OF STEERING COLUMN)
YEL
PARK/ NEUTRAL POSITION RELAY (CONVEN-IENCE CENTER)
ORG/BLK
IGNITION COIL (FRONT OF ENGINE)
DISTRIBUTOR
ELECTRONIC IGNITION CONTROL MODULE (FRONT OF ENGINE)
IGN CTRL
COIL DRIVER
GROUND
WHT
BLK/WHT
WHT/BLK
G110 (ENGINE COMPARTMENT, ON FRONT OF LEFT CYLINDER HEAD)
PCM GROUND
TRANS PRESS CTRL LOW
IGNITION
TCC CONTROL SOLENOID
SERIAL DATA
A/C CLUTCH CTRL
MIL CTRL
CANISTER PURGE CTRL
TRANS TCC CTRL
A/C PRESS SENSOR SIG
CHANGE OIL IND CTRL
KNOCK SENSOR SIG
KNOCK SENSOR SIG
TRANS FLUID TEMP SIG
SERIAL DATA
CONN C4
1 BLK/WHT 451
2 LT BLU/WHT 1229
3 PNK 539
6 BRN 418
7 PPL 1807
8 DK GRN/WHT 459
9 BRN/WHT 419
10 DK GRN/WHT 428
11 TAN/BLK 422
12 RED/BLK 380
16 PNK 1439
21 LT BLU 1876
22 DK BLU 496
28 YEL/BLK 1227
29 TAN 800
A/C SYSTEM (COMPRESSOR RELAY)
A/C REFRIGERANT PRESSURE SENSOR (IN HI PRESSURE LINE, ABOVE RIGHT WHEELHOUSE)
INSTRUMENT CLUSTER SYSTEM
RIGHT KNOCK SENSOR (RIGHT OF ENGINE BLOCK, BELOW EXHAUST MANIFOLD)
LEFT KNOCK SENSOR (LEFT OF ENGINE BLOCK, FORWARD OF STARTER)
ELECTRONIC BRAKE CONTROL MODULE (LEFT SIDE OF ENGINE COMPARTMENT, PART OF BRAKE PRESSURE MODULATOR VALVE)
DATA LINK CONNECTOR (ATTACHED TO I/P CARRIER, RIGHT OF STEERING COLUMN)
G203 (BASE OF LEFT "A" PILLAR, BEHIND KICK PANEL)
POWERTRAIN CONTROL MODULE (ENGINE COMPARTMENT, FORWARD OF LEFT TWHEELHOUSE, UNDER AIR CLEANER)
SW A
SW B
SW C
TRANS FLUID TEMP SENSOR
FORCE MOTOR
HI
LO
TCC ENABLE SOLENOID
SHIFT SOLENOID A
SHIFT SOLENOID B
TCC CONTROL SOLENOID
3-2 CTRL SOLENOID (PWM)
ELECTRONIC CONTROLLED TRANSMISSION
DK GRN/WHT
PPL
ORG/BLK
RED/BLK
PNK
DK BLU
RED
DK GRN/WHT
WHT
LT GRN
YEL/BLK
BRN
BLK/WHT
PNK
GRY
BLK
79456

Fig. 6: 5.7L (VIN P) PCM Wiring Diagram (Fleetwood - 3 Of 3)